

Centers of Excellence Proposal Summaries
First Round Awards
October, 2005

- Bismarck State College – Energy

Amount Received: \$3,000,000

Amount of Match: Up to \$13,082,000

Private Sector Partners: Great River Energy, Basin Electric, Reliant Energy, MDU, North American Coal, Westmoreland Coal, Minnesota Power/BNI Coal

Job Creation: Energy industry anticipates 3350 new construction jobs and 973 new technician jobs will be created as a result of new plants being constructed.

Summary: BSC through the BSC Foundation is requesting money to construct an Energy Technology Center of Excellence. The world-class facility will combine energy workforce training with environmental research while advancing the use of coal combustion products.

- NDSU – Advanced Electronics Design and Manufacturing

Amount Received: \$3,000,000

Amount of Match: Up to \$9,550,000

Private Sector Partners: Crane Wireless Monitoring Solutions, Alien Technology Corporation, Clinical Supplies Management Inc. *other companies submitted letters of support:* Apparea Systems, Imation, Pedigree Technologies, Phoenix International, Killdeer Mountain Manufacturing, Pemstar Turtle Mountain

Job Creation: Upon successful outcome of research possible results include:

- AmeriPride increase of \$3.6 million in product sales & 15 new high tech jobs plus 25 additional production jobs

- Clinical Supplies Management increase of up to \$1 million in sales & 7 to 10 new jobs

- Pedigree Technologies potential for an additional \$25-50 million in sales realized within 5 to 7 years with possible 400 new jobs.

Summary: When funded, the Center will start research on highly-marketable products identified by two of NDSU's established private sector partners: Radio Frequency Identification (RFID) sensor tags for the cold-chain shipments market (Alien Technology), and advanced sensors utilizing a new global wireless standard (Crane Aerospace and Electronics). A third project with Clinical Services Management utilizing RFID technology will also begin. Products from these projects can be made in ND's highly-capable electronics manufacturing companies, such as Killdeer Mountain Manufacturing, Pemstar Turtle Mountain, and Phoenix International.

- UND Energy and Environmental Research Center – Hydrogen Technology

Amount Received: \$2,500,000

Amount of Match: Up to \$8,000,000 + anticipated \$6,000,000 within 1 year

Private Sector Partners: ePower, Kraus Global Inc., Basin Electric Power Cooperative, Phoenix Industries

Job Creation: 100

Summary: Recently designated as the National Center for Hydrogen Technology (NCHT) by the U.S. Department of Energy, the EERC has \$7,500,000 cash and \$500,000 of in-kind contributions in current hydrogen projects, with additional \$6,000,000 cash anticipated in the next 12 months. However, hydrogen projects are becoming significantly limited because of space issues at the EERC. To continue to be aggressive and flexible, the EERC is anticipating the construction of a \$3,000,000 facility to house the NCHT.

- Lake Region State College – Technology Optimized Research

Amount Received: \$500,000

Amount of Match: Up to \$1,317,650

Private Sector Partners: Agri ImaGIS, Total-Crop Farming Systems, Summers Manufacturing

Job Creation: Jobs will be created at three different levels of activity: product development work at the technology companies participating in the center; testing and evaluation work carried out at the farm and experiment station sites; and expanded manufacturing jobs in Devils Lake resulting from new product enhancements.

Summary: The vision is “to become the premier center for technological applications in North American agriculture” while fulfilling its mission to birth technology-optimized products which increase net margins of North Dakota’s farmer/ranchers, respond to the need for technological inputs which preserve fragile eco-systems, and create an entrepreneurial platform.